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TECH NEWS



VOL. XII

WORCESTER, MASS., DECEMBER 7, 1920

NO. 11

WEST BOYLSTON HEARS FINE CONCERT

Musical Clubs Have Great Success

The concert by the combined Musical Clubs last Saturday evening was the biggest success that they have had since they were reorganized after the time of the S. A. T. C. It was held at the Congregational church in West Boylston, and was followed by an impromptu concert on the road while the singers waited nearly an hour for the affair to come along which the Worcester Consolidated runs under the name of trolley.

The clubs were rather late in arriving at the church, the power of the trolley car being rather insufficient, but once there the clubs well repaid the audience for waiting with a concert that was overflowing with wit the whole time. The minute the Tech men hopped off the car the attitude of the audience changed from one of watchful waiting to one of sublime submission to the talent displayed by the entertainers. The Glee Club in particular was much above its previous form and felt so much at home in the church that the collection plate was passed along the line during their song, "The Miller's Wooing." Two men pulled their usual trick of taking money out of the plate instead of putting it in. Also during another song, one of the members of the Orchestra walked up to center aisle and presented Winslow, '21, with a coal hod in appreciation of his coming to the concert.

Once again it was necessary to omit the quartet from the program owing to the fact that one of its number did not show up. It seems to be a hard job at Tech to get a good quartet, for although there has not been any at all for several years, the last one, which was used during the season of 1916-1917, only contained two undergraduates. It would seem that out of over 500 men on the Hill four men could be gotten together who could pull off some good songs. It is often that the quartet turns out to be the greatest success of the evening at the concerts of other colleges.

Outside of the big success that the Glee Club made with their songs, the selections of John Wenzel, Jr., and Howard Trombley were the hits of the evening as at the previous concerts this year.

The clubs and the management have worked hard this year to turn out a better concert program than was used

(Continued on Page 2, Col. 3.)

STAGE SET FOR THE CARNIVAL

Fraternities and Cosmopolitan Club Have Acts—Side Shows and Dancing Planned

The Fifth Tech Carnival will put in its appearance this Friday night at the gymnasium. Eight acts are to be produced, one by the Cosmopolitan Club and the rest by the fraternities. This will be the Cosmopolitan Club's first attempt, but their act promises to be a good one. Nothing is known of the nature of the other acts, but an examination of the program below would indicate that the Eighteenth Amendment is more or less mixed up with the evening's entertainment.

Professors Coombs and Haynes of the Faculty, together with Mr. T. J. Meehan of Poli's Theatre are to undertake the hazardous job of judging the acts and will award the cup to the winner during the dancing.

In addition to the regular program, the Sophomore and Freshmen classes will put on sideshows in competition for another cup.

Following the program, informal dancing will take place until one o'clock, probably. Refreshments will be served after the second or third dance.

No seats are reserved. The best plan is to come early and avoid the rush. A big crowd is expected, and the late comers will very probably be a long way from the stage. Tickets are priced at fifty-five cents, and may be obtained from division distributors.

The program is as follows:

The Cabaret Girl	Phi Sigma Kappa
An A. T. O. my	Alpha Tau Omega
The Other Voice	Delta Tau
A Plague of Nations	

	Cosmopolitan Club
Moonshine	Lambda Chi Alpha
Delirium Tremens—1920	Theta Chi
Too Much Johnson	

	Sigma Alpha Epsilon
Potpourri	Phi Gamma Delta

VICE PRESIDENT OF A. S. M. E. TO ADDRESS ASSEMBLY

The speaker for the Assembly at 11 o'clock on December 16th is D. R. Yarnall, Manager of the Yarnall-Waring Company, Philadelphia, Pa. He has recently returned from eight months in Germany, Austria, Poland and the allied countries, where he represented a Quaker organization for relief, and he rendered a large amount of assistance to distress in Europe.

RED CROSS DRIVE SUCCESS AT TECH

Sixty-Two Percent Enrolled

At the end of the Red Cross membership drive here at the Institute it was found that the number of men who had given a dollar amounted to three hundred and sixty-four. This means that the school as a whole has a membership of sixty-two per cent.

While this is not as large as it might have been it is exceedingly gratifying to see that we stand high among the colleges in percentage of membership. Several women's colleges went up to a hundred per cent, while the range was anywhere from twelve per cent. upward.

Arthur G. Rotch, manager of the New England Division of the American Red Cross, has written to the students of Worcester Tech in appreciation of the fine showing that has been made. The letter reads:

"Mr. William M. Harris, who has been in charge of the College Roll Call, has brought to my attention that over eight thousand students in the New England colleges have become members of the American Red Cross for 1921. This is a splendid showing and a very generous response. As manager of the New England Division, I desire to express my appreciation to the students of your college.

"We are counting on your membership, not only for the coming year but in years to come, knowing that as members you will always be potential factors for service wherever the Red Cross is needed."

TECH SHOW MANUSCRIPTS ARE IN

Three Tech Show manuscripts have been turned in to the Business Manager of the Dramatic Association. The shows are to be submitted to a committee of judges, consisting of Professors Joslin and Zinn, with the coach. Inasmuch as no coach has been engaged for this season, no decision can be reached yet as to which show is the best, nor is it known whether the Association will have to depend on outside talent again as it did last year.

In any case it is expected that the show will be settled on directly after the Christmas recess, so that tryouts may be held shortly after school reopens, with rehearsals starting soon after that. A meeting of the Association will probably be held in the near future.

SOPHOMORES WIN BASKETBALL TITLE

Juniors, Seniors and Freshmen Finish in Order—One-Sided Scores the Rule

In the first game of the interclass series the Sophomores defeated the Juniors 27-20 in a fast, exciting game. Both teams were on the go from the first whistle, and each side gave a good exhibition of passing and team work. The first half ended with the Sophomores 19-11 in the lead. The Juniors came back with a rush in the second and the ball was continually hovering around their basket. The Sophomores were obliged to fight hard to hold their lead. As was expected, Berry showed up in fine style for '23, dropping the ball in from all angles and positions. Stoughton and White also played a fast game. Colesworthy was traveling every second for the Juniors and Pickwick broke up play after play. In the second half Lundgren dropped in a neat basket from the center of the floor.

JUNIORS SOPHOMORES

Colesworthy f	f Stoughton
Johnson, H. A., f	

	f Whelpley (Trombley)
Lundgren c	c Berry
Keith g	g White
Pickwick g	g Clark (Murphy)

Floor goals: Colesworthy 3, Johnson 2, Lundgren 2, Pickwick 2, Stoughton 3, Whelpley 2, Berry 7, White 1. Fouls: Colesworthy 2, Berry 1.

SENIOR-FRESHMAN

On the same afternoon, the Freshmen suffered a decided defeat at the hands of the Seniors. There was very little teamwork on either side; this was especially evident in the Freshman team. Campbell for 1921 played a good game. The lineup:

1921—21	5—1924
Campbell f	f Reed
Morse f	f Sharpe
Fieldier c	c Bagg
Condit g	g Cook
Smith g	g Beckley

Baskets from floor: Campbell 8, Morse 2, Huntington 1, Reed 1, Cook 2. Baskets from free trial: Huntington 1, Bagg 1. Fouls: Seniors 6, Freshmen 7. Substitutions: Huntington for Fieldier, Clough for Beckley, Beckley for Bagg, Connihan for Sharpe, Higgins for Beckley, Martin for Connihan.

FRESHMEN-JUNIORS

The Juniors defeated the Freshmen Tuesday night by a score of 36 to 15.

(Continued on Page 3, Col. 1.)

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Contributing to This Issue

H. E. Drake, '21 H. B. Whitmore, '21
W. S. Titcomb, '21 H. S. Johnson, '24
P. S. Taber, '24 F. H. Frissell, Jr., '23
G. C. Willard, '24 F. A. Hughes, '23
J. S. Friedlander, '24 O. H. Dodkin, '23
E. B. Coghlin, '23 Jos. Phalen, '23
Totman, '24 G. M. Seidel, '23

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DECEMBER 7, 1920

BOOST TECH

EDITORIAL

EDITORIAL

"Pride goeth before a fall," and just as surely overconfidence is the precursor of disaster. Whether or not we are suffering from the latter disease is not certain, but that there is great danger of it is very apparent.

To explain: Last year we won the basketball championship of New England. The championship team was composed of six men, five of whom are now in school. What could be sweeter? It seems logical that victory should again perch on our standard, and the remark "We'll clean up in basketball, anyhow," is a common one about the Hill.

The recent humiliation of the Syracuse football team in this city illustrates what we have in mind better than any amount of talk possibly could. A team is no better than it plays, and past performance does not enter into future scores. We have all set our hearts on another championship and a season marred by no defeat. What is needed now is for every one to forget last year's great reason for the time being and get together and work for this year's. Get behind the team as you never got behind a team before. If you can play basketball, come out and try for a place,—if you don't make the first there will be a second and possibly a

third. You will be helping out, that is the main thing. What we need this year, besides a crack first squad, is a lot of crack substitutes, so that if marks or injuries break up the team in mid-season, we can go on winning games just the same.

We are undertaking an ambitious schedule. There are no easy teams on it. That means that from the opening whistle until the final gun, the team will have to travel at top speed all the time, without a let-up. And the team cannot do that unless the school does the same thing. If everybody will dig in and work about ten times as hard as last year, then we can expect to triumph.

It has been for some time the conviction of the NEWS that the Institute will be greatly benefited by the creation of a Publicity Board, to promote and direct the sending of news information on all important matters to the general press. In our observation there are numerous events on the Hill to which any city editor would be glad to devote considerable space, but which never break into print simply because information is not sent in. In athletics, especially, greater publicity should be obtainable by concerted effort. Our coming basketball season, for example, can command not only the leading athletic interest in Worcester this winter, but consistent reporting and comment in the metropolitan press of Boston and New York, if there be an organization actively and promptly handling the matter. There is no better form of advertising, as is granted universally today; and our alumni beyond the immediate Worcester district will gain thereby new interest in their alma mater.

The desultory reporting system, as maintained by a few undergraduates at present, is on a commercial basis, which is apt to create a different tone than an account written under a publicity program; and may be colored, unconsciously by class or departmental, or fraternal ties. And frequently, too, articles are delayed until their value as news is much lessened. News above all must be fresh.

We would urge, therefore, a Publicity Board headed by a member of the faculty whose standing would bring the board immediate authority and prestige, and including a representative of the athletic association, the musical association and the TECH NEWS, at least, together with those men now handling news matter for outside papers. The exact makeup of the board can be worked out later, but this will give a nucleus. The board, to be effective, should be clothed with authority

to handle all publicity, either obtaining first-hand information through its own men or editing material supplied by the various activities themselves. It must gain and keep a reputation for promptness and accuracy, and if this is done its copy soon will be recognized and welcomed far beyond the present scope of Tech publicity.

We look to the Tech Council as the logical body to formally launch this project, and hope before long to see definite action taken. An aggressive Publicity Board should become one of the Institute's strongest assets.

FRATERNITY NEWS

PHI GAMMA DELTA

Paul W. Glover, '14, dropped in recently for a short visit. He is located in Caribou, Me.

The engagement of Howard E. Drake, '20, to Miss Carol Stoddard of Brooklyn, N. Y., was recently announced.

SIGMA ALPHA EPSILON

William H. Dale, Dartmouth, '20, was a visitor for the week.

PHI SIGMA KAPPA

Donald Farnsworth, '22, has severed connections with the Massachusetts Oilless Bearings Co. to accept a position on the engineering staff of the American Steel and Wire Co.

ALPHA TAU OMEGA

Richard Hollerith, '24, was recently pledged.

G. W. Farnsworth, '16, was married Nov. 12th.

We are holding a Christmas dinner, Dec. 19th for the alumni.

THETA CHI

Paul M. Abbott, '20, visited us recently. He is connected with the Edison Lamp Works at Harrison, N. J.

On Tuesday, Nov. 25th, the annual Thanksgiving banquet was held in the house. About eighty-six active men and alumni were present.

The house will hold a dance on Saturday, Dec. 11th, to help entertain out-of-town visitors to the Carnival.

(Continued from Page 1, Col. 1.)

WEST BOYLSTON HEARS FINE CONCERT

last year, and the result last night showed that they have been successful. The management now appeals to the Tech men who live in the towns adjacent to Worcester to find out if it is not possible to get a concert in those towns this school year. If every Tech man will do this, there is no reason at all why the Musical Association should not be three times the success financially that it was last year.

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(Continued from Page 1, Col. 4.)

SOPHOMORES WIN TITLE

The first year men were very weak in their passing game and were unable to meet the attack of the Juniors. Keith and Pickwick broke up many of the Freshmen plays. Higgins, Beckley and Reed played a good game for the Freshmen. H. S. Johnson of the Juniors was high-score man, getting seven baskets from the floor.

JUNIORS Reed f
Sharpe f
Higgins c
Beckley g
Cook g

FRESHMEN f Colesworthy
f H. S. Johnson
c Lundgren
g Keith
g Pickwick

Baskets from the floor: H. S. Johnson 7, Lundgren 5, Colesworthy 4, Reed 3, Keith, Cook, Higgins, Clough. Free tries: Reed 3, Colesworthy 2. Substitutions: Counihan for Sharpe, Totman for Beckley, Clough for Cook. Referee: Swasey. Scorer: Potter. Timer: Bunyan. Time: 15-minute halves.

SOPHOMORES-SENIORS

In a one-sided game on Tuesday the Sophomores beat the Seniors by a score of 37-4. Although the Seniors played as hard as they were able all through the game there never was a comparison between the two teams. Great credit due to Murphy and White, backs for the Sophomores, who held Campbell to only one basket from the floor.

Lineups:

1923 Clark f
Stoughton f
Berry c
White b
Murphy b

1921 f Campbell
f Morse
c Huntington
b Condit
b Smith

Substitutions: Whelpley for Clark, Fielder for Condit. Baskets from floor: Berry, Whelpley 5, Stoughton 4, Clark, White 2, Campbell 1. Baskets on free tries: Berry, Morse, Huntington 1.

SENIORS-JUNIORS

The Juniors defeated the Seniors without much difficulty Friday night in the fifth game of the interclass series. It was a snappy, but rather rough game with the Juniors showing consistent team work all the way through. Lundgren did good work for the Juniors, and so did Smith, accidentally; for Smithy, in intercepting a pass, quite unintentionally poked the ball into his own basket. The score was 21-9, and the lineups were as follows:

JUNIORS-21 Colesworthy f
Sholtz f
Lundgren c
Pickwick g
Keith g

9-SENIORS f Campbell
f Morse
c Huntington
g Smith
g Condit

Field goals: Colesworthy 4, Herr 1, Lundgren 3, Pickwick 1, Campbell 1, Morse 2. Foul goals: Huntington 1, Campbell 2, Colesworthy 3. Substitutions: Herr for Sholtz. Fouls: Juniors 11, Seniors 9.

FRESHMEN-SOPHOMORES

In the last game of the series the Sophomores beat the Freshmen 25-6. The game started off slowly but ended with both teams fighting hard. The Sophomores were held to three baskets the first half. In the second half, however, the Sophomores dropped the ball in

A Comparison of Y. M. C. A. Memberships by Classes for the Last Two Years FOR THE YEAR 1920-1921 UP TO PRESENT DATE

	No. Now Here	Active	% Active	Associate	% Active and Asso.	Affiliate	Total Members All Classes	Total %	% Non-Members
Graduate	15	9	60	3	80	—	12	80	20
Senior	67	53	79.3	9	92.7	2	64	95.6	4.4
Junior	108	91	84.4	10	93.6	3	104	96.3	3.7
Sophomore	147	121	82.3	7	87	5	133	90.4	9.6
Freshman	211	180	85.3	6	88.1	5	191	90.4	9.6
Student body	548	454	78.3	35	88.3	15	494	90.6	9.4

FOR THE YEAR 1919-1920

	No. Now Here	Active	% Active	Associate	% Active and Asso.	Affiliate	Total Members All Classes	Total %	% Non-Members
Graduate	7	4	57.2	—	—	—	4	57.2	42.8
Senior	85	68	80	6	87.1	1	75	88.3	11.7
Junior	103	69	67	13	79.6	5	87	84.5	15.5
Sophomore	142	110	77.4	17	89.4	3	130	91.5	8.5
Freshman	206	133	64.5	10	69.4	5	148	71.8	28.2
Student body	543	384	70.8	40	79.3	14	444	81.8	18.3

There are more membership applications yet to come in. This will change this year's percentage.

with little difficulty. Berry continually dribbled the ball down the floor feeding it to Clark and Whelpley, who would in turn shoot for two points. White and Murphy held the Freshmen down to one basket. Reed played a good game for the Freshmen, scoring all of the six points. The score:

FRESHMEN-6 25-SOPHOMORES

Reed rf
Sharp rf
Higgins c
Cook rg
Beckley lg

rf Clark
rf Whelpley
c Berry
rg White
lg Murphy

Field goals: Clark 4, Whelpley 4, Berry, White, Reed. Foul goals: Berry 5, Reed 4. Foul shots missed: Berry 4, Reed 3. Substitutions: Totman for Beckley; Cunningham for Sharp; Clough for Cunningham; Turtelot for Higgins; Beckley for Clough. Time: 15-minute halves. Referee: Swasey.

STANDING OF CLASSES FINAL

	Played	Won	Lost	Per Ct.
1923	3	3	0	1.000
1922	3	2	1	.667

WHO'S WHO AT TECH.

President, 1921	P. K. Davis	P-4963
President, 1922	C. H. Needham	P-50928
President, 1923	T. W. Berry	P-1050
President, 1924	Wm. Welch	P-50928
Eus. Manager, Tech Show	C. H. Needham	P-50928
Manager Musical Association	E. L. Sholz	P-1050
Football Manager	P. K. Davis	P-4963
BaseBall Manager	C. A. Callahan	P-1564
Basketball Manager	E. B. Saunders	P-52278
TECH NEWS-Editorial	I. R. Smith	P-50928
TECH NEWS-Business	G. P. Condit	P-1050
1921 Aftermath-Editorial	R. G. Ferguson	P-52278
1921 Aftermath-Business	H. E. Drake	P-50928
General Secretary Y. M. C. A.	W. B. Anthony	P-687

TECH CARNIVAL
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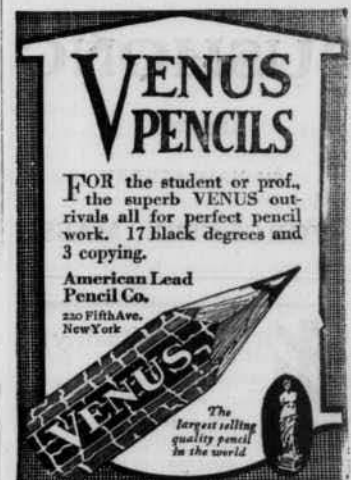
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A. I. E. E. MEETING

Everyone who attended the meeting of the Worcester Branch of the A. I. E. E. last Tuesday, spent a delightful evening listening to the illustrated talk given by J. Allen Johnson of the Niagara Falls Power Co.

Mr. Johnson is a former Tech man and since his graduation, some fifteen years ago, he has been at Niagara Falls.

The subject presented by Mr. Johnson was "Niagara Power Development."

He gave a brief sketch of the electrical plants which have been in operation for some time at Niagara and then turned to the construction of the newest addition to the Niagara Falls Power Company known as the Extension of Plant No. 32 of this company. By means of motion pictures and slides he illustrated the construction of this new plant, from the first excavation to the delivery of the current from the dynamos.

The plant consists of three vertical generators, directly connected to tur-

bines, producing approximately 100,000 k. w. at an exceedingly high efficiency.

Mr. Johnson also showed the distribution plant of the Niagara Falls Power Co., which has a capacity of 250,000 k. w., pointing out the new features for increasing the efficiency and safety of a distribution plant.

In addition there were two reels of motion pictures, one showing the grandeur of the Niagara river and falls, and the other illustrating the production of carborundum, which is indispensable to industry, and the making of which requires a large amount of cheap electrical energy.

PHYSICAL EDUCATION DEPT.

Dr. F. M. Seerley of Springfield Y. M. C. A. college lectured to the Freshmen class last Friday. His talk on Hygiene was very convincing and he held the interest of the audience every minute. The Freshies voted him a live wire and look forward to his next visit.



What Is Air?

BEFORE 1894 every chemist thought he knew what air is. "A mechanical mixture of moisture, nitrogen and oxygen, with traces of hydrogen and carbon dioxide," he would explain. There was so much oxygen and nitrogen in a given sample that he simply determined the amount of oxygen present and assumed the rest to be nitrogen.

One great English chemist, Lord Rayleigh, found that the nitrogen obtained from the air was never so pure as that obtained from some compound like ammonia. What was the "impurity"? In co-operation with another prominent chemist, Sir William Ramsay, it was discovered in an entirely new gas—"argon." Later came the discovery of other rare gases in the atmosphere. The air we breathe contains about a dozen gases and gaseous compounds.

This study of the air is an example of research in pure science. Rayleigh and Ramsay had no practical end in view—merely the discovery of new facts.

A few years ago the Research Laboratories of the General Electric Company began to study the destruction of filaments in exhausted lamps in order to ascertain how this happened. It was a purely scientific undertaking. It was found that the filament evaporated—boiled away, like so much water.

Pressure will check boiling or evaporation. If the pressure within a boiler is very high, it will take more heat than ordinarily to boil the water. Would a gas under pressure prevent filaments from boiling away? If so, what gas? It must be a gas that will not combine chemically with the filament. The filament would burn in oxygen; hydrogen would conduct the heat away too rapidly. Nitrogen is a useful gas in this case. It does form a few compounds, however. Better still is argon. It forms no compounds at all.

Thus the modern, efficient, gas-filled lamp appeared, and so argon, which seemed the most useless gas in the world, found a practical application.

Discover new facts, and their practical application will take care of itself.

And the discovery of new facts is the primary purpose of the Research Laboratories of the General Electric Company.

Sometimes years must elapse before the practical application of a discovery becomes apparent, as in the case of a gas-filled lamp. But no substantial progress can be made unless research is conducted for the purpose of discovering new facts.

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